

Scott M. Matheson  
Governor



James O. Mason, M.D., Dr.P.H.  
Executive Director  
801-533-6111

DIVISIONS

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Environmental Health  
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STATE OF UTAH  
DEPARTMENT OF HEALTH  
DIVISION OF ENVIRONMENTAL HEALTH

150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110-2500

RECEIVED

MAY 25 1982

May 21, 1982  
533-6146

Alvin E. Rickers, Director  
Room 474 801-533-6121

RECEIVED  
#16  
AUG 30 1982

Robert L. Newell, Senior Project Coordinator  
Anaconda Minerals Company  
555 Seventeenth West  
Denver, Colorado 80202

DIVISION OF  
OIL, GAS & MINING

RE: Construction Permit  
Wastewater Facilities  
North Lily Project  
Eureka, Utah

Dear Mr. Newell:

We have reviewed the plans and design criteria in Anaconda's Wastewater Construction Permit application received May 7, 1982. These concern the proposed North Lily cyanide leach project near Eureka, Utah for reprocessing of an existing tailings deposit followed after approximately two years by reclamation of the site.

As a result of our review the plans and design criteria appear to be in substantial conformance with the Utah Wastewater Disposal Regulations and a construction permit as constituted by this letter is hereby issued subject to the following considerations:

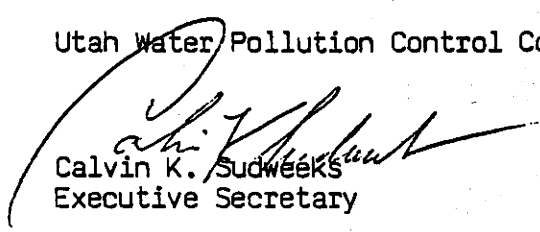
1. There will be no discharge of process or other wastewater from the site.
2. The leach pad will consist of a 700 by 700 ft. shaped surface, with 20 and 30 mil PVC and 36 mil hypalon synthetic lining, enclosed with a perimeter berm. Leach solutions will be recirculated through the leach pad to a pregnant solution pond and barren solution pond both lined with 36 mil hypalon synthetic liner.
3. Storm runoff upslope from the site will be routed around the site by diversion facilities. Storm runoff inside of the pad will be accommodated by the collection system. Storm runoff in the recovery plant will drain into the barren solution pond.
4. The facility will be completely enclosed with a non-climbable fence to exclude people and animals from the site.

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5. Upon completion of the leach operation the site will be reclaimed and closed as outlined in detail in page 10 of report 01205/1 as submitted for this construction permit.

Sincerely,

Utah Water Pollution Control Committee



Calvin K. Sudweeks  
Executive Secretary

EHP:ch  
CC: Tooele County Health Department  
1243

CC: B. Gwilym  
J. Whyte  
I. Nelson  
D. Arnolds



STATE OF UTAH  
DEPARTMENT OF HEALTH

DIVISION OF ENVIRONMENTAL HEALTH  
150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110

Alvin E. Rickers, Director  
Room 426 801-533-6121

August 7, 1981  
533-4207

James O. Mason, M.D., Dr.P.H.  
Executive Director  
801-533-6111

DIVISIONS

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Family Health Services  
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and Standards

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Health Planning and  
Policy Development  
Medical Examiner  
State Health Laboratory

Mr. J.M. Beck  
Anaconda Copper Company  
555 Seventeenth Street  
Denver, CO 80217

Re: Well Drilling Specification  
Approval

Dear Mr. Beck:

On August 7, 1981 you hand carried a well drilling specification and water right information into our office with an oral request for our review of them. The documents were in relation to a proposed well to provide both process and domestic water for the North Lily Project your company is planning in the Tintic Valley about 3 miles south of Eureka in Juab County.

Our review of the well drilling specification indicates it basically complies with Utah's Public Drinking Water Regulations and it is hereby approved subject to the following conditions,

1. The grouting method and materials will be in accordance with Section 6.2.4.7 of the Regulations. Exceptions may be allowed upon application and approval prior to the grout placement. The grouting procedure must be witnessed and certified as required in Section 6.2.2b of the regulations.

If the State Engineer's staff is unable to meet your drillers schedule please contact the Bureau of Public Water Supplies.

2. The minimum thickness of steel well casing allowed is 0.322 inches.
3. The gravel pack material must be disinfected prior to its placement.
4. The model of pitless adapter unit used must appear on the approved list of the Pitless Adapter Association or the National Sanitation Foundation. The upper terminus of the pitless adapter must be 18 inches above the natural soil.

5. The well, after completion of drilling and testing activities, must be disinfected in accordance with AWWA Standard A100 or Section 6.2.5.2 of the Regulations.
6. A method to measure the water level in the well must be provided.
7. A casing vent must also be provided. The pitless adapter should have provisions for this vent.

After the well is completed and before it can be approved as a source of water for a public water supply, the following items from Section 6.2.2 must receive a favorable review:

1. A copy of the "Report of Well Driller",
2. Confirmation from the State Engineer's office that the well was grouted in accordance with the well drilling specification and the requirements of the Division of Health,
3. A copy of the pump test including the yield vs draw down test as described in Section 6.2.5.1,
4. A copy of the complete chemical analysis as defined in the Appendix, Item D, performed by a certified laboratory, or water developed from the well. The samples for the analysis should be collected after the well has been continuously pumped for 24 hours.

Sample bottles must be collected in specially prepared sample bottles available from the Bureau of Public Water Supplies, local health departments or certified laboratories.

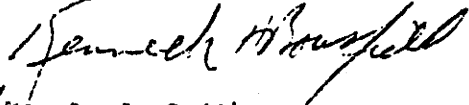
5. A copy of complete plans and specifications covering the well equipment and diversion piping necessary to introduce the water from the well into the distribution system,
6. Evidence that present and future protection and adjacent land (see Section 6.2.3) can be assured by the well owners,
7. A bacteriologic analysis of water obtained from the well after disinfection and flushing.

August 7, 1981

Our review of the water rights material indicates a valid right to use the water for domestic purposes exists, but it expires after six years.

Sincerely,

UTAH SAFE DRINKING WATER COMMITTEE



for Gayle J. Smith  
Executive Secretary

MBG:vlb

Enclosure

cc: Central Utah District Health Department-Mt. Pleasant